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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/602,228	06/24/2003	Ki-Tae Park	HALO02-004	8534
759	90 12/23/2004		EXAMINER	
STEPHEN B. ACKERMAN			STERRETT, JEFFREY L	
28 Davis Avenue Poughkeepsie, NY 12603			ART UNIT	PAPER NUMBER
5 1 ,			2838	
			DATE MAILED: 12/23/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	-			
Office Action Comments	10/602,228	PARK ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jeffrey L. Sterrett	2838	A			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence add	lress			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be timwithin the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this con D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
	- action is non-final.					
3) Since this application is in condition for allowan	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-38 is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	n from consideration.					
5)⊠ Claim(s) <u>1-10 and 12-38</u> is/are allowed.						
6) Claim(s) is/are rejected.			•			
7)⊠ Claim(s) <u>11</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers			•			
9) The specification is objected to by the Examine	ſ.					
10)⊠ The drawing(s) filed on <u>24 June 2003</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is ob	jected to. See 37 CF	R 1.121(d).			
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PT	O-152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 LLS C & 110(a)	\-(d) or (f)				
a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 33 O.O.O. § 119(a))-(a) or (i).				
,, ,	have been received					
1. Certified copies of the priority documents have been received.2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
·						
Attachment(s)			•			
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 9-22-03	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		-152)			
						

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1. The drawings are objected to because the connection between stages 1 and 2 is missing in figures 7 and 11.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action.

The objection to the drawings will not be held in abeyance.

2. The drawings are objected to under 37 CFR 1.83(a) because the drawings must show every feature of the invention specified in the claims. Therefore, the pull-down device as recited by claims 3 and 18 must be shown or the feature canceled from the claim. It is noted that currently figure 11, which on page 14 of the specification is identified as the figure showing the pull-down device Md, is essentially the same drawing as figure 7. No new matter should be entered.

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The objection to the drawings will not be held in abeyance.

- 3. Claim 11 is objected to because in line 2 "couple" should be -coupled-.

 Appropriate correction is required.
- 4. Claims 1-10 and 12-38 are allowed.
- 5. Claim 11 would be allowable if rewritten to overcome the objection set forth above in this office action.
- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Furutani (US 5,610,550), Hsu et al (US 5,978,283), Kim (US 6,812,774), Ghilardelli et al (US 6,130,572), Li (US 6,496,055), Shor et al (US 6,677,805), Bloch (US 6,677,806), and Pelliconi (US 6,819,162) are cited to show charge pump circuits old and known in the art at the time of the invention.

7. This application is in condition for allowance except for the formal matters set forth above in this office action.

Prosecution on the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey L. Sterrett whose telephone number is (571) 272-2085. The examiner can normally be reached on Monday-Thursday & 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached on (571) 272-2084. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jeffrey L. Sterrett Primary Examiner Art Unit 2838

Jeffrey (Semuett